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(54) **Low profile integrated oscillator having a stepped cavity**

(57) A low profile integrated oscillator operable to provide an oscillator signal includes a thermally conductive substrate having a cavity and a ledge. A crystal or other resonator is located in the cavity and mounted to the ledge. The resonator stabilizes the oscillator signal. An electrical circuit is mounted to the substrate and electrically connects to the resonator to condition the oscillator signal. A cover seals the resonator in the cavity. A

via electrically connects the resonator to the electrical circuit. A heater is mounted to the substrate, outside the cavity, for elevating the temperature inside the cavity and a temperature sensor is mounted to the substrate to monitor the oscillator temperature. The substrate is surrounded by an insulation and mounted within a housing. The housing has a connector for connecting to an external electrical circuit.

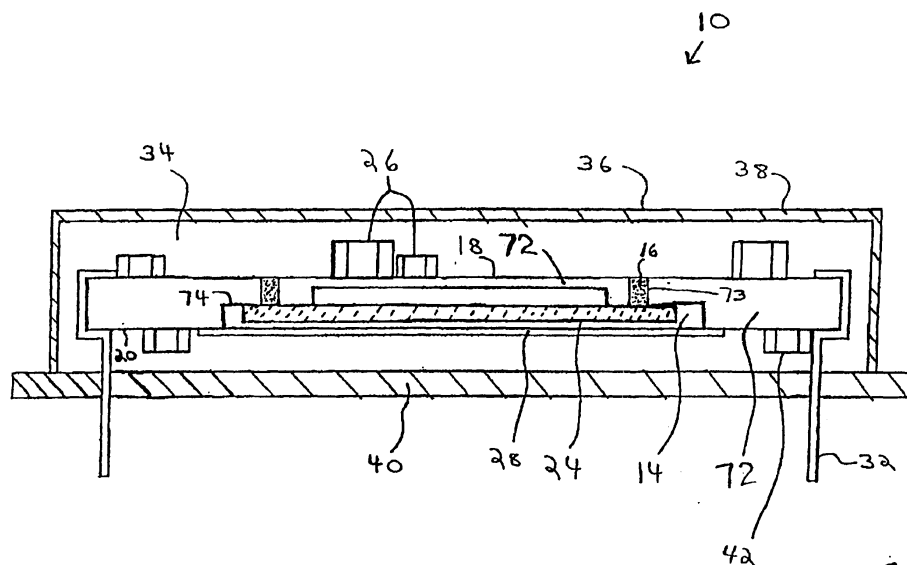


FIG. 1

1895



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 99 30 7181

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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H03H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 23 June 2000	Examiner Degraeve, L
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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